

What is Claimed is:

1. A composition for removing stains from dental surfaces comprising a stain removing effective amount of at least two active components selected from a peroxide
5 compound, a polyphosphate, and an anionic surfactant, said composition further comprising an orally acceptable carrier.

2. The composition of claim 1 wherein the peroxide compound is selected from the group consisting of carbamide peroxide, hydrogen peroxide, calcium peroxide,
10 sodium peroxide, strontium peroxide, zinc peroxide, magnesium peroxide and mixtures thereof.

3. The composition of claim 1 wherein the polyphosphate is selected from the group consisting of tripolyphosphates, tetrapolyphosphates, pyrophosphates,
15 hexametaphosphates and mixtures thereof.

4. The composition of claim 3 wherein the polyphosphate is selected from the group consisting of water soluble alkali metal polyphosphates.

20 5. The composition of claim 4 wherein the polyphosphate is selected from the group consisting of sodium tripolyphosphate, potassium tripolyphosphate, sodium

potassium tripolyphosphate, sodium hexametaphosphate, tetrasodium pyrophosphate, sodium acid pyrophosphate and mixtures thereof.

6. The composition of claim 1 wherein the polyphosphate is present in a stain removing effective amount of from about 0.01% to 5% by weight based on the total weight of the composition.

7. The composition of claim 6 wherein the polyphosphate is present in a stain removing effective amount of from about 0.1% to 3% by weight based on the total weight of the composition.

8. The composition of claim 7 wherein the polyphosphate is present in a stain removing effective amount of from about 1.0% to 3% by weight based on the total weight of the composition.

9. The composition of claim 1 where the anionic surfactant is selected from the group consisting of sulfated butyl oleate, medium and long chain fatty acid esters and salts, sodium and potassium salts of stearate and palmitate and methyl and ethyl esters thereof, sodium oleate, salts of fumaric acid, potassium glomate, organic acid esters of mono- and diglycerides, stearyl monoglyceridyl citrate, succistearin, dioctyl sodium sulfosuccinate, glycerol tristearate, lecithin, hydroxylated lecithin, sodium lauryl sulfate, acetylated monoglycerides, succinylated monoglycerides, monoglyceride

citrate, ethoxylated mono- and diglycerides, sorbitan monostearate, calcium stearyl-2-lactylate, sodium stearyl lactylate, lactylated fatty acid esters of glycerol and propylene glycerol, glycerol-lactoesters of C₈-C₂₄ fatty acids, polyglycerol esters of C₈-C₂₄ fatty acids, propylene glycol alginate, sucrose C₈-C₂₄ fatty acid esters, diacetyl tartaric and
5 citric acid esters of mono- and diglycerides, triacetin, and mixtures thereof.

10. The composition of claim 1 where the anionic surfactant is selected from the group consisting of sulfated butyl oleate, medium and long chain fatty acid esters and salts, organic acid esters of mono- and diglycerides, ethoxylated mono- and
10 diglycerides, lactylated fatty acid esters of glycerol and propylene glycerol, glycerol-lactoesters of C₈-C₂₄ fatty acids, polyglycerol esters of C₈-C₂₄ fatty acids, sucrose C₈-C₂₄ fatty acid esters, diacetyl tartaric and citric acid esters of mono- and diglycerides, and mixtures thereof.

15 11. The composition of claim 1 wherein the anionic surfactant is selected from the group consisting of sodium stearate, potassium stearate, sodium palmitate, potassium palmitate, sodium oleate, glycerol stearate, glycerol lactate, glycerol stearate lactate, sucrose monostearate, sucrose distearate, sucrose monolaurate, sucrose
20 dilaurate, polyglycerol esters of monostearate, polyglycerol esters of monolaurate, glycerol-lactoesters of C₁₄-C₂₀ fatty acids, polyglycerol esters of C₁₄-C₂₀ fatty acids, sucrose C₁₄-C₂₀ fatty acid esters, and mixtures thereof.

12. The composition of claim 1 where the anionic surfactant is selected from the group consisting of sodium stearate, sodium palmitate, citric acid esters of mono- and diglycerides, lactic acid esters of mono- and diglycerides, and mixtures thereof.

5 13. The composition of claim 1 in the form of a chewing gum, said anionic surfactant being present in an amount of from about 0.1% to 2.0% by weight based on the total weight of the composition.

10 14. The composition of claim 13 wherein the amount of the anionic surfactant is from about 0.4% to 1.2% by weight based on the total weight of the composition.

15 15. The composition of claim 1 in the form of a confectionery, said anionic surfactant being present in an amount of from about 0.1% to 20% by weight based on the total weight of the composition.

16. The composition of claim 15 wherein the amount of the anionic surfactant is from about 3% to 15% by weight based on the total weight of the composition.

20 17. The composition of claim 1 wherein the composition is selected from the group consisting of chewing gums, centerfill confections, nougats, candies, panning goods, gel confections, fondants, lozenges, hard boiled candies, mints, troches, pastilles, microcapsules, cakes, wafers, thin films, tablets and compressed tablets.

18. The composition of claim 1 wherein the composition is selected from the group consisting of mouthwashes, mouth sprays, toothpastes, tooth powders, tooth gels, dental creams, dental flosses, liquids, gels, and oral film forming dentifrices.

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19. The composition of claim 1 in the form of a dentifrice, said anionic surfactant being present in an amount of from about 0.01% to 20% by weight based on the total weight of the composition.

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20. The composition of claim 1 wherein the peroxide compound is present in a stain removing effective amount of from about 0.01% to 10% by weight based on the total weight of the composition.

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21. The composition of claim 20 wherein the peroxide compound is present in a stain removing effective amount of from about 0.1% to 5% by weight based on the total weight of the composition.

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22. The composition of claim 21 wherein the peroxide compound is present in a stain removing effective amount of from about 0.2% to 3% by weight based on the total weight of the composition.

23. The composition of claim 1 in the form of a chewing gum, wherein:

the peroxide compound is present in the stain removing effective amount of from about 0.01% to 10% by weight based on the total weight of the composition; and

the polyphosphate is present in the stain removing effective amount of
5 from about 0.01% to 5% by weight based on the total weight of the composition.

24. The composition of claim 1 in the form of a chewing gum, wherein:

the peroxide compound is present in the stain removing effective amount of from about 0.01% to 10% by weight based on the total weight of the composition; and

10 the anionic surfactant is present in the stain removing effective amount of from about 0.1% to 2.0% by weight based on the total weight of the composition.

25. The composition of claim 1 in the form of a chewing gum, wherein:

the polyphosphate is present in the stain removing effective amount of
15 from about 0.01% to 5% by weight based on the total weight of the composition; and

the anionic surfactant is present in the stain removing effective amount of from about 0.1% to 2.0% by weight based on the total weight of the composition.

26. The composition of claim 1 in the form of a confectionery, wherein:

20 the peroxide compound is present in the stain removing effective amount of from about 0.01% to 10% by weight based on the total weight of the composition; and

the polyphosphate is present in the stain removing effective amount of from about 0.01% to 5% by weight based on the total weight of the composition.

27. The composition of claim 1 in the form of a confectionery, wherein:

5 the polyphosphate is present in the stain removing effective amount of from about 0.01% to 5% by weight based on the total weight of the composition; and the anionic surfactant is present in the stain removing effective amount of from about 0.1% to 20.0% by weight based on the total weight of the composition.

10 28. The composition of claim 1 in the form of a confectionery, wherein:

the peroxide compound is present in the stain removing effective amount of from about 0.01% to 10% by weight based on the total weight of the composition; and the anionic surfactant is present in the stain removing effective amount of from about 0.1% to 20.0% by weight based on the total weight of the composition.

15 29. The composition of claim 1 further comprising an encapsulating substance for encapsulating the peroxide compound within the composition.

30. The composition of claim 29 wherein the encapsulating substance is
20 selected from the group consisting of natural gums, synthetic gums, edible oils, polymers, olefin copolymers, resins, waxes, mineral oils, and mixtures thereof.

31. The composition of claim 1 wherein the orally acceptable carrier is a solid carrier.

32. The composition of claim 1 wherein the orally acceptable carrier is a gum
5 or wax base.

33. A method of removing stains from dental surfaces comprising
administering a stain removing effective amount of the composition of claim 1 to the oral
cavity of a warm-blooded animal including humans for contact with the dental surfaces
10 thereof.

34. A method of making the composition of claim 1 comprising combining the
effective amount of at least two active components selected from the peroxide
compound, the polyphosphate, and the anionic surfactant, with the orally acceptable
15 carrier.